

Product datasheet for **MC219426**

Slc43a1 (NM_001083809) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc43a1 (NM_001083809) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc43a1
Synonyms:	2610016F07Rik; AA986141; Lat3; PB39; Pov1; R00504
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219426 representing NM_001083809
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGAGTACCCTTCCCAAGGCGCTAGGAAGCCCTTCTCTGAGCGCTCTGTTTCTCTGCAGAGTCT
 CGGCCACCATGGCTCCCACGCTGAAGCAGGCGTACCGCAGGCGCTGGTGGATGGCTTGCACCGCTGTGGT
 GGAGAACCTCTTCTTCTCCGCGGTGCTCCTGGGCTGGGCCTCCCTGCTGATCATGCTCAAGAAGGAAGG
 TTCTATTCCAGCCTGTGCCAGCTGAGAACAGGACCAATACCACCCAAGATGAACAGCATCAGTGGACAA
 GCTGTGACCAGCAGGAAAAGATGCTCAACCTGGGTTTACCATTGGCTCCTTCTGCTGAGTGTACCAC
 ACTGCCTCTGGGAATTCTCATGGACCGCTTGGGCCAGGCTCTTCGACTGGTGGGCAGTGCCTGCTTT
 GCCGCATCTGCACTCTAATGGCCTTGGCCTCCAGGGACACTGAAGTTTTGTCTCCATTGATTCCTGG
 CACTGTCCTTGAATGGATTTGCTGGCATCTGCTTAACGTTTACCTCACTACGCTGCCAACATGTTTGG
 GAATTTGCGATCCACTTTCATGGCCCTCATGATTGGCTCCTATGGGTCTTCTGCCATCACGTTCCCTGGA
 ATCAAGCTGATCTACGATGCCGGAGTCCCTTCACTGTATCATGTTACATGGTCTGGCCTGGCCTGTC
 TCATCTTTTTGAACTGTGCTCTCAACTGGCCTGCAGAAGCCTTTCCTGCCCTGAGGAAGTTGACTACAC
 GAAGAAGATCAAACCTATTGGGTTAGCCTTGGACCACAAGGTCACAGGTGACCGCTTCTACACCCATGTA
 ACCATTGTGGGTGAGCGGCTGAGTCAGAAGTCCCCCAGCCTGGAGGAGGGCGCTGACGCCTTTATTTTCA
 TCCCCGATATCCCTGGTACCTCAGAGGAGACTCCTGAAAAGTCTGTCCCTTTTCGCAAGAGCCTCTGCTC
 CCCCATTTTCTGTGGAGCCTTGTACCATGGGCATGACCCAGCTTCGGGTCATCTTCTATATGGGTGCT
 ATGAACAAGATCCTGGAGTTCATTGTGACTGGTGGCAAGGAACGTGAGACAAATGAGCAGAGACAGAAGG
 TGGAGGAGACAGTTGAGTTCTACTTCCATCTTTGGAGTCATGCAGCTGTTGTGCTTCTCACCTGCCC
 CCTCATTGGCTACATCATGGACTGGCGCATCAAGGACTGTGTGGATGCTCCAACGAGGGCACCCGTAAT
 GAGAATGCTTCTTTGGAGATGCCAGAGATGGGCTAGCACCAAGTTCCTAGACCACGCTACCGCAAGG
 TACAAAAGCTCACCAATGCCATCAATGCCTTACCCTGACCAACATCCTGCTTGTGGGTTTCGGCATCGC
 CTGCCATCAAGAACCTTACACCTGCAGTTGCTGGCCTTGTCTGCATACCATAGTTTCGCGGTTTCTTC
 CACTCAGCCTGTGGAGTCTCTACGCTGCTGTGTTCCCGTCCAATCATTTTGGGACACTGACAGGTCTTC
 AGTCTCTCATCAGTGCCGTGTTTGTCTGCTGCAACAGCTACTTTCATGGCCATGGTGGGACCCCTGCA
 TGGAGATCCCTTCTGGGTAACCTGGGCCTCCTACTTCTCTCGTTCCTGGGATTTCTCCTACCTTCTAC
 CTCTACTACTACCGGTCTCGCCTGCAGAGAGATATGCCACCAATTTGGTAGACCACAGAAGGTGCTCA
 ATACTTGAAGGTGGCTACATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001083809
- Insert Size:** 1773 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001083809.1](#), [NP_001077278.1](#)

RefSeq Size: 2478 bp

RefSeq ORF: 1773 bp

Locus ID: 72401

UniProt ID: [Q8BSM7](#)

Cytogenetics: 2 D

Gene Summary: Sodium-independent, high affinity transport of large neutral amino acids. Has narrower substrate selectivity compared to SLC7A5 and SLC7A8 and mainly transports branched-chain amino acids and phenylalanine (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) differs in the 5' UTR and has multiple coding region differences, compared to variant 1. These differences cause translation initiation from a distinct ATG and an isoform (3) with a shorter, distinct N-terminus, compared to isoform 1.